
IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

Applicant: Gantier *et al.* Serial No.: 10/658,355

Filed : Sep

September 08, 2003

Cust. No.: 24961 Conf. No.: 3519

For: RATIONAL DIRECTED PROTEIN

EVOLUTION USING TWO-DIMENSIONAL RATIONAL MUTAGENESIS SCANNING

Art Unit:

1645

Examiner:

Unassigned



TRANSMITTAL LETTER

Commissioner for Patents U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

Transmitted herewith via hand delivery are an Information Disclosure Statement, Form PTO-1449 (8 pages), and cited references for filing in connection with the above-identified application. Because this Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits in the above-identified application, no fee is due. However, should it be determined that a fee for filing these papers is required, the Commissioner is authorized to charge Deposit Account No. 06-1050, as stated below:

(X)

The Commissioner is hereby authorized to charge any fees that may be due under 37 C.F.R. §§1.16-1.17 in connection with this paper or with this application during its entire pendency to Deposit Account No. 06-1050. A duplicate of this sheet is enclosed.

Respectfully submitted,

By:

Stephanie L. Seidman Registration No. 33,779

Dated: March 17, 2004

Attorney Docket No. 37851-0922

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INFORMATION DISCLOSURE STATEMENT IN ACCORDANCE . WITH 37 C.F.R. §§ 1.97-1.98

Commissioner for Patents U.S. Patent and Trademark Office P.O. Box 1450 Alexandria, VA 22313-1450

Dear Sir:

This Information Disclosure Statement is filed prior to receipt of a First Office Action on the merits of the above-captioned application. Thus, a fee for filing this statement should not be due. If, however, it is determined that a fee is due, any fees that may be due in connection with filing this paper may be charged to Deposit Account No. 06-1050.

In accordance with the duty of disclosure imposed by 37 C.F.R. §1.56 to inform the Patent Office of all references known by Applicant or Applicant's representative that may be material to the examination of the subject application, Applicant's representative hereby provides this Information Disclosure Statement that is prepared in accordance with 37 C.F.R. §§1.97-1.98. Form PTO-1449 (8 pages) and copies of the cited documents are provided herewith in connection with the above-captioned application.

The documents listed on Form PTO-1449 and supplied herewith are all in the English language with the exception of items K, L, P, and Q. Patent numbers WO 01/44809 (item K), WO 01/86291 (item L), FR 2802645 (item P)

U.S.S.N. 10/658,355 Gantier *et al.* Information Disclosure Statement

and FR 2808804 (item Q), are in the French language and supplied with English language equivalents (item No. B for items K and P, and item No. D for items L and Q) describing the subject matter. Hence, in accordance with the requirements of 37 C.F.R. §1.98, as amended effective March 16, 1992, no further explanation of the listed items is necessary.

Applicant also makes known to the Examiner the following U.S. and International applications, which are commonly owned and/or have one or more inventors in common:

U.S.S.N.	Filing Date	Publ'n. No.	Publ'n. Date	Docket No.
10/022,249	12/17/01	2003-0134351	07/17/03	911
10/022,390	12/17/01	2003-0129203	07/10/03	912
10/375,192	02/24/03	2003-0224404	12/04/03	918
60/457,135	03/21/03			P922B
10/658,834	09/08/03			922
60/457,063	03/21/03			P923B
10/168,075	10/28/02	2003-0129584	07/10/03	N/A
10/275,253	05/09/03	2003-0175694	09/18/03	N/A

Int'l App. No.	Filing Date	Publ'n No.	Docket No.
WO 2003023032	08/16/02	PCT/IB02/03921	911PC
WO 200318820	08/16/02	PCT/IB02/04087	912PC
Unassigned	09/09/03		922PC
Unassigned	09/09/03		923PC
EP1281081	05/04/01		N/A
EP1244912	12/13/00		N/A
WO 0186291	05/04/01		N/A
WO 010144809	12/13/00		N/A

Although these documents are made known to the Patent and Trademark Office in compliance with Applicant's duty of disclosure, such disclosure is not to be construed as an admission by Applicant or Applicant's representative that any of the references, singly or in any combination thereof, is effective as prior art against the subject application. In accordance with 37 C.F.R. §1.97(h), the filing of this Information Disclosure Statement shall not be construed to mean that a search has been made or that no other material information as defined in 37 C.F.R. §1.56(b) exists.

U.S.S.N. 10/658,355 Gantier *et al.* Information Disclosure Statement

Applicant respectfully requests that the Examiner review the foregoing references and information and that they be made of record in the file history of the above-captioned application.

Respectfully submitted,

By:

Stephanie L. Seidman Registration No. 33,779

Dated: March 17, 2004

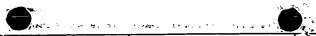
Attorney Docket No. 37851-0922

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FORM PTO-1449	ATTY. DOCKET NO. 37851-923	SERIAL NO. 10/658,355	CONFIRM NO. 3519
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE	APPLICANT GANTIER et al.	CUSTOMER N 24961	10.
STATEMENT	FILING DATE September 8, 2003	GROUP 1644	

^{*} If an asterisk is placed beside the reference number, a copy is NOT provided because the reference was previously cited by or submitted to the PTO in a prior application that is identified in the statement and relied upon for an earlier filing date under 35 U.S.C. 120. 37 C.F.R. § 1.98(d).

U.S. PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code	_	DOCUMENT NUMBER						DATE	NAME	CLASS	SUB CLASS	FILING DATE
	Α	0	1	2	9	2	0	3	07/10/03	Vega et al.	424	233.1	12/17/01
	В	0	1	2	9	5	8	4	07/10/03	Vega	435	5	12/13/00
	С	0	1	3	4	3	5	1	07/17/03	Vega et al.	435	69.1	12/17/01
	D	0	1	7	5	6	9	4	09/18/03	Vega	435	5	05/04/01
	E	0	2	2	4	4	0	4	12/04/03	Vega <i>et al.</i>	435	6	02/24/03
	F	4	0	4	4	1	2	6	08/23/77	Cook et al.	424	243	07/09/76
	G	4	3	6	4	9	2	3	12/21/82	Cook et al.	424	46	04/30/81
	н	4	4	1	4	2	0	9	11/08/83	Cook et al.	424	243	06/13/77
	1	4	5	2	2	8	1	1	06/11/85	Eppstein <i>et al.</i>	514	2	07/08/82

FOREIGN PATENT DOCUMENTS

EXAMINER INITIAL	*Ref. Code		DC	CUME	NT N	UMBE	R		DATE	COUNTRY	CLASS	SUB CLASS	Trans Yes	lation No
	J	0	1	3	2	7	1	1	A2 05/10/01	PCT				<u> </u>
	К	0	1	4	4	8	0	9	A2 06/21/01	РСТ				X +
	L	0	1	8	6	2	9	1	A1 11/15/01	PCT				X +
	М	03	0	2	3	0	3	2	A2 03/20/03	PCT				
	N	03	0	1	8	8	2	0	A2 03/06/03	PCT				
	(0)	1	0	2	2	`3	3	5	07/26/00	EP				

EXAMINER

DATE CONSIDERED

EXAMINER: Initial if citation considered, whether or not citation is in conformance with MPEP 609; Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

Title: RATIONAL DIRECTED PROTEIN EVOLUTION USING TWO-DIMENSIONAL RATIONAL MUTAGENESIS

SCANNING

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EXAMINER INITIAL	*Ref. Code		DC	симі	ENT N	UMBE	R		DATE	COUNTRY	CLASS	SUB CLASS	Trans Yes	lation No
· · · · · · · · · · · · · · · · · · ·	Р	2	8	0	2	6	4	5	A1 06/22/01	FR				X +
	a	2	8	0	8	8	0	4	A1 11/16/01	FR				X +
	R	9	7	3	8	7	2	3	10/23/97	РСТ				
	s	9	8	3	2	8	8	0	07/30/98	РСТ				
	т.	9	8	3	2	8	9	0	07/30/98	PCT				

X+= An English Language Equivalent is provided.

OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

Û	Astwood et al., "Stability of food allergens to digestion in vitro", Nature Biotechnology, 14:1269-1273 (1996)
V	Bellido <i>et al.</i> , "The phospholipid and fatty acid composition of skeletal muscle cells during culture in the presence of vitamin D-3 metabolites," <i>Biochim Biophys Acta</i> , 922(2):162-169 (1987)
W	Bernkop-Schnurch, A. "The use of inhibitory agents to overcome the enzymatic barrier to peroally administered therapeutic peptides and proteins", <i>Journal of Controlled Release</i> , 52:1-16 (1998)
X	Biron <i>et al.</i> , "Natural Killer Cells In Antiviral Defenses: Function and Regulation by Innate Cytokines," <i>Annu. Rev. Immunol.</i> , <u>17</u> :189-220 (1999)
Y	Boger et al., "Surface Probability Profiles. A Heuristic Approach to the Selection of Synthetic Peptide Antigens," Reports of the Sixth International Congress in Immunology, p. 250 (1986)
Z	Briand et al., "Impact of the lysine-188 and aspartic acid-189 inversion on activity of trypsin," FEBS Lett., 442(1):43-47 (1999)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHE	R ART (Including Author, Title, Date, Fertinent Fages, Etc.)
ÁÀ	Cockburn, A. "Assuring the safety of genetically modified (GM) foods: the importance of an holistic, integrative approach", <i>Journal of Biotechnology</i> , 98:79-106 (2002)
АВ	Dayhoff et al., "A Model of Evolutionary Change in Proteins," Atlas of Protein Sequence and Structure, 5(3):345-352 (1978)
AC	Diaz et al., "Nomenclature of the Human Interferon Genes," J. Interferon Cytokine Res., 16:179-180 (1996)
AD	Drittanti <i>et al.</i> , "Effects of 1,25-dihydroxyvitamin D-3 on phospholipid metabolism in chick myoblasts, <i>Biochim Biophys Acta.</i> , 962(1):1-7 (1988)
AE	Drittanti <i>et al.</i> , "Changes in muscle lipid metabolism induced in vitro by 1,25-dihydroxy-vitamin D-3, <i>Biochim Biophys Acta</i> , 918(1):83-92 (1987)
AF	Drittanti <i>et al.</i> , "Involvement of the 3',5'-cyclic AMP pathway in the induction of calmodulin synthesis in myoblasts by 1,25(OH)2-vitamin D3," <i>Biochim Biophys Res Commun.</i> , 192(2):886-892 (1993)
AG	Drittanti <i>et al.</i> , "Modulation of DNA synthesis in cultured muscle cells by 1,25-dihydroxyvitamin D-3," <i>Biochim Biophys Acta.</i> , 1014(2):112-119 (1989)
АН	Drittanti <i>et al.</i> , "Stimulation of calmodulin synthesis in proliferating myoblasts by 1,25-dihydroxy-vitamin D3," <i>Mol Cell Endocrinol.</i> , 74(2):143-153 (1990)
AI	Drittanti <i>et al.</i> , "Optimised helper virus-free production of high-quality adenoassociated virus vectors," <i>J Gene Med.</i> , 3(1):59-71 (2001)
AJ	Drittanti <i>et al.</i> , "Cystic fibrosis: gene therapy or preventive gene transfer?" <i>Gene Ther.</i> , 4(10):1001-1003 (1997)
AK	Drittanti et al., "High throughput production, screening and analysis of adenoassociated viral vectors," Gene Ther., 7(11):924-929 (2000)
AL	Du et al., "Efficient transduction of human neurons with an adeno-associated virus vector," Gene Ther 3:254-261 (1996)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OTHE	R ART (Including Author, Title, Date, Pertinent Pages, Etc.)
ÂM	Feng <i>et al.</i> , "Aligning Amino Acid Sequences: Comparison of Commonly Used Methods," <i>J. Mol. Evol.</i> , 21:112-125 (1985)
AN	Fitch, "An Improved Method of Testing for Evolutionary Homology," <i>J. Mol. Evol.</i> , 16(1):9-16 (1966)
AO	Fuchs, R.L. and J.D. Astwood, "Allergenicity Assessment of Foods Derived from Genetically Modified Plants", <i>Food Technology</i> , <u>50:</u> 83-88 (1996)
AP	Gantier et al., "The L392V mutation of presentlin 1 associated with autosomal dominant early-onset Alzheimer's disease alters the secondary structure of the hydrophilic loop," <i>Neuroreport</i> , 10(14):3071-3074 (1999)
AQ	Gantier et al., "The pathogenic L392V mutation of presentiin 1 decreases the affinity to glycogen synthase kinase-3 beta," Neurosci Lett., 283(3):217-220 (2000)
AR	Gibrat et al., "Surprising similarities in structure comparison," Current Opinion in Structural Biology, 6:377-385 (1995)
AS	Gonnet et al., "Exhaustive Matching of the Entire Protein Sequence Database," Science, 256:1433-1445 (1992)
АТ	Grantham,"Amino Acid Difference Formula to Help Explain Protein Evolution," Science, 185:862-864 (1974)
AU	Guyon et al., "Regulation of acetylcholine receptor alpha subunit variants in human myasthenia gravis. Quantification of steady-state levels of messenger RNA in muscle biopsy using the polymerase chain reaction," <i>J Clin Invest.</i> , 94(1):16-24 (1994)
AV	Guyon et al., "Regulation of acetylcholine receptor gene expression in human myasthenia gravis muscles. Evidences for a compensatory mechanism triggered by receptor loss," <i>J Clin Invest.</i> , 102(1):249-263 (1998)
AW	Henikoff et al., "Amino acid substitution matrices from protein blocks," Proc. Natl. Acad. Sci. USA, 89:10915-10919 (1992)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OFHE	R ART (Including Author, Title, Date, Pertinent Pages, Etc.)
AX	Hibbert <i>et al.</i> , "Human Type 1 Inderferons Differ Greatly in Their Effects on the Proliferation of Primary B Cells," <i>J. Interferon Cytokine Res.</i> , <u>19</u> :309-318 (1999)
AY	Hoedemaekers <i>et al.</i> , "Differential susceptibility of young and old rat neuromuscular junctions to antibody-mediated AChR degradation in experimental autoimmune myasthenia gravis," <i>Ann N Y Acad Sci.</i> , <u>841</u> :550-554 (1998)
AZ	Hoedemaekers <i>et al.</i> , "Role of target organ in determining susceptibility to experimental autoimmune myasthenia gravis," <i>J Neuroimmunol.</i> , 89(1-2):131-141 (1998)
ВА	Holm et al., "Mapping the Protein Universe," Science, 273:595-602 (1996)
ВВ	IUPAC-IUB "Commission on Biochemical Nomenclature Abbreviated Nomenclature of Synthetic Polypeptides (Polymerized Amino Acids)," <i>Biochem.</i> , <u>11</u> :942-944 (1972)
ВС	IUPAC-IUB "Commission on Biochemical Nomenclature A One-Letter Notation for Amino Acid Sequences Tentative Rules", <i>J. Biol. Chem.</i> , 243(13):3557-3559 (1968)
BD	Johnson et al., "A Structural Basis for Sequence Comparisons. An Evaluation of Scoring Methodologies," <i>J. Mol. Biol.</i> , 233:716-738 (1993)
BE	Jones et al., "The rapid generation of mutation data matrics from protein sequences," Comput. Appl. Biosci., 8:275-282 (1992)
BF	Lu, G., "TOP: a new method for protein structure comparisons and similarity searches," <i>J. Appl. Cryst.</i> , 33:176-189 (2000)
BG	Marrack et al., "Type I Interferons Keep Activated T Cells Alive," J. Exp. Med., 189:521-530 (1999)
ВН	Masciovecchio <i>et al.</i> , "The interactivity between the CFTR gene and cystic fibrosis would be limited to the initial phase of the disease," <i>Genet Med.</i> , <u>2(2)</u> :124-130 (2000)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

OTTIL	IN ANT (including Author, Title, Date, Fertilient Fages, Etc.)
BI	McLachlan, "Tests for Comparing Related Amino-acid Sequences. Cytochrome c and Cytochrome c_{551} ," <i>J. Mol. Biol.</i> , <u>61</u> :409-424 (1971)
ВЈ	Miyata, "Two Types of Amino Acid Substitutions in Protein Evolution," <i>J. Mol. Evol.</i> , <u>12</u> :219-236 (1979)
ВК	Morikawa et al., "Recombinant interferon- α , - β and - γ enhance the proliferative response of human B cells," <i>J. Immunol.</i> , 139:761-766 (1987)
BL	Moulian <i>et al.</i> , "Respective role of thymus and muscle in autoimmune myasthenia gravis," <i>Ann N Y Acad Sci.</i> , <u>841</u> :397-406 (1998)
ВМ	Murzin <i>et al.</i> , "SCOP: A Structural Classification of Proteins Database for the Investigation of Sequences and Structures," <i>J. Mol. Biol.</i> , <u>247</u> :536-540 (1995)
BN	NCBI Nucleotide No. J00207
ВО	Orengo <i>et al.</i> , "CATH - a hierarchic classification of protein domain structures," <i>Structure</i> , <u>5(8)</u> :1093-1108 (1997)
ВР	Pestka, et al., "Interferons and Their Actions," Annu. Rev. Biochem., 56:727-777 (1987)
ВΩ	Piehler et al., "New Structural and Functional Aspects of the Type I Interferon-Receptor Interaction Revealed by Comprehensive Mutational Analysis of the Binding Interface," J. Biol. Chem., 275:40425-40433 (2000)
BR	Poëa <i>et al.</i> , "Modulation of acetylcholine receptor expression in seronegative myasthenia gravis," <i>Ann Neurol.</i> , <u>48(5)</u> :696-705 (2000)
BS	Poëa <i>et al.</i> , "Expression of ciliary neurotrophic factor receptor in myasthenia gravis," <i>J Neuroimmunol.</i> , 120(1-2):180-189 (2001)
BT	Rao, "New scoring matrix for amino acid residue exchanges based on residue characteristic physical parameters," <i>J. Pept. Protein Res.</i> , 29:276-281 (1987)

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OTHER ART (Including Author, Title, Date, Pertinent Pages, Etc.)

<u> </u>	HER ART (including Author, Title, Date, Pertinent Pages, Etc.)
BU	Raux <i>et al.</i> , "The -2 bp deletion in exon 6 of the 'alpha 7-like' nicotinic receptor subunit gene is a risk factor for the P50 sensory gating deficit," <i>Mol Psychiatry</i> , 7(9):1006-1011 (2002)
BV	Raux et al., "A novel presenilin 1 missense mutation (L153V) segregating with early-onset autosomal dominant Alzheimer's disease," <i>Human Mutat.</i> , Report #134, two pages (2000)
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FORM PTO-1449	ATTY. DOCKET NO. 37851-923	SERIAL NO. 10/658,355	CONFIRM NO. 3519
LIST OF PATENTS AND PUBLICATIONS FOR APPLICANT'S INFORMATION DISCLOSURE STATEMENT	APPLICANT GANTIER et al.	CUSTOMER NO. 24961	
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